

Title (en)
FILTER AND OIL CATCH DEVICE

Title (de)
FILTER UND ÖLFÄNGER

Title (fr)
FILTRE ET DISPOSITIF DE COLLECTE D'HUILE

Publication
EP 3216509 A4 20180502 (EN)

Application
EP 15856993 A 20151001

Priority
• JP 2014226103 A 20141106
• JP 2015077961 W 20151001

Abstract (en)
[origin: EP3216509A1] Object The invention has for its object to provide a filter and an oil catch apparatus that are each capable of extracting a sufficient amount of oil albeit being of compact size. Embodiment As shown in Fig. 2 , the filter 1 comprises a cylindrically formed main filter unit 2, a first keep member 3 for keeping one end of the main filter unit 2, and a second keep member 4 for keeping the other end of the main filter unit 2. Air flowing into the main filter unit 2 from an opening 3a formed in the first keep member 3 is cleared of impurities upon passing through the main filter unit 2, and exits out of the main filter unit 2.

IPC 8 full level
B01D 39/08 (2006.01); **B01D 39/12** (2006.01); **B01D 39/16** (2006.01); **B01D 46/24** (2006.01); **B01D 46/42** (2006.01); **F01N 1/24** (2006.01); **F24F 7/00** (2006.01); **F24F 13/02** (2006.01)

CPC (source: EP US)
B01D 39/08 (2013.01 - US); **B01D 39/083** (2013.01 - EP US); **B01D 39/1623** (2013.01 - US); **B01D 39/2041** (2013.01 - EP US); **B01D 46/0031** (2013.01 - US); **B01D 46/24** (2013.01 - EP US); **B01D 53/266** (2013.01 - US); **B60T 17/002** (2013.01 - EP US); **B60T 17/004** (2013.01 - US); **F24F 13/02** (2013.01 - EP US); **B01D 46/4236** (2013.01 - EP US); **B01D 2239/0636** (2013.01 - US); **B01D 2239/0695** (2013.01 - US); **B01D 2258/0283** (2013.01 - US); **B01D 2259/4566** (2013.01 - US); **B01D 2275/105** (2013.01 - EP US)

Citation (search report)
• [XYI] CH 505639 A 19710415 - NORDDEUTSCHE SEEKABELWERKE AG [DE]
• [Y] US 2002150805 A1 20021017 - STENERSEN EIVIND [US], et al
• [A] US 3450632 A 19690617 - OLSON ROBERT JAMES, et al
• [A] WO 2010129171 A2 20101111 - 3M INNOVATIVE PROPERTIES CO [US], et al
• See references of WO 2016072184A1

Cited by
US10583820B2; US10583391B2; US10583382B2; US10933351B2; US10807582B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3216509 A1 20170913; **EP 3216509 A4 20180502**; BR 112017009307 A2 20171219; CN 107106959 A 20170829; JP 2016087557 A 20160523; US 10882504 B2 20210105; US 2018304878 A1 20181025; WO 2016072184 A1 20160512

DOCDB simple family (application)
EP 15856993 A 20151001; BR 112017009307 A 20151001; CN 201580070059 A 20151001; JP 2014226103 A 20141106; JP 2015077961 W 20151001; US 201515524695 A 20151001